Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY M.Ph Semester–III Examination Dec. - 2011

Subject code: 930107Date: 10/12Subject Name: Pharmaceutical and Cosmetic AnalysisTime: 10.30 am - 01.30 pmTotal Mark			/2011	
			as: 80	
Instru	1. 2.	ns: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Explain kinetics of decomposition? How is it determined? Describe solid state decomposition of pure drug with suitable examples. Describe stability testing of disperse system.	8 8	
Q.2	(b) (a)	Describe identification test for preservative, colouring materials and antioxidant.	8	
Q.3	(b) (a)	Discuss in detail photolysis of drug with suitable examples. Describe the importance of analysis of drugs from biological fluids?	8 7	
	(b)	Explain selection of biological sample. Describe extraction of drugs using liquid-liquid and solid phase extraction techniques	9	
Q.4	(a) (b)	Describe toxicity testing in cosmetics How will you determine the quality of raw materials used in cosmetics? Discuss briefly the methods used for their analysis.	8 8	
Q.5		Describe methods of analysis for the following cosmeticsa) Dental productsb) Eye shadow.c) Personal hygiene productsd) Ethnic products	16	
Q. 6	(a)	Describe drug-excipients and drug-drug interaction with suitable example.	8	
	(b)	Discuss BIS standard for sampling and testing of finished cosmetics.	8	
Q.7		Write notes on a) Microbial decomposition b) Factors affecting extraction c) Methods of stabilization for drugs d) Analysis of skin care products	16	